

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Steven J. Brown et al.

Attorney's Ref.: P213560

Serial No.: 09/780,316

Art Unit: 2181

Filed: 02/09/2001

Title: REMOTE GENERATION AND  
DISTRIBUTION OF COMMAND  
PROGRAMS FOR  
PROGRAMMABLE DEVICES

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Technology Center 2100

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Sir:

In accordance with 37 CFR §1.56, the Applicant respectfully submits this Supplemental Information Disclosure Statement to call to the attention of the Examiner the references listed on the attached Forms PTO/SB/08A and PTO/SB/08B for consideration in the prosecution of the above-referenced application for U.S. patent. Citation of a reference in this Information Disclosure Statement is not an admission that the reference is prior art to the present invention.

To reduce the amount of paperwork submitted in this case, the Applicant is not enclosing copies of the U.S. patents cited in this Information Disclosure Statement. If the Examiner is unable to obtain them, the Applicant can provide them at the Examiner's request. Copies of the non-patent literature documents are, however, attached hereto for the Examiner's convenience.

It is believed that no fee is due at this time to maintain the application in full force and effect, however if any such fee is due please charge this to Deposit Account No. 502099.

REMARKS

I. U.S. PATENTS

U.S. Patent No. 6,028,593 to Rosenberg et al. discloses a system for simulated physical interaction by a user with simulated objects displayed on a computer. Force

feedback is provided by interfering with a mapping between a position on the simulated object to the physical position of the user object.

U.S. Patent No. 5,821,920 to Rosenberg et al. discloses an apparatus for interfacing a flexible object with an electrical system.

U.S. Patent No. 6,147,647 to Tassoudji et al. discloses a resonator antenna comprising a resonator form from a dielectric material.

U.S. Patent Nos. 5,956,484 and 6,101,530 to Rosenberg et al., and U.S. Patent Nos. 6,161,126 and 6,125,385 to Wies et al. disclose systems and methods that allow force feedback commands to be transmitted over a network using TCP/IP protocols.

U.S. Patent No. 6,061,004 to Rosenberg discloses a force feedback system in which the position of a user controlled object is detected and a graphical object is displayed on a display screen at a position corresponding to the position of the physical object.

U.S. Patent No. 6,046,727 to Rosenberg et al. discloses a position sensing interface in which a manipulateable object is coupled to a mechanical linkage. Sensors detect movement of the mechanical linkage, and a dedicated microprocessor provides a host computer with information from the sensor.

U.S. Patent No. 6,078,308 to Rosenberg et al. discloses a force feedback system in which, when a mouse encounters a click surface defined by a graphical user interface, a force is output opposing movement of a user object in the direction of the click surface.

U.S. Patent No. 6,100,874 to Schena et al. discloses a mouse having force feedback capabilities.

U.S. Patent No. 6,166,723 to Schena et al. discloses a mouse having force feedback capabilities.

U.S. Patent No. 6,128,006 to Rosenberg et al. discloses a mouse having a cursor controlled wheel that is provided with force feedback capabilities.

U.S. Patent No. 6,131,097 to Peurach et al. discloses a system for authoring a geometrical database incorporating touch or haptic feedback.

U.S. Patent No. 5,438,529 to Rosenberg et al. discloses a percussion system that functions both as a percussion signal input device and a mouse for a personal computer.

U.S. Patent No. 5,623,582 to Rosenberg discloses a system for converting movement of an object into electrical signals that may be processed by a computer.

U.S. Patent No. 5,576,727 to Rosenberg et al. discloses a linkage system, the movement of which is transduced into electrical signals that are processed by an application on a computer. The application generally is force feedback commands that are transmitted back to the linkage apparatus. The linkage apparatus converts the force feedback commands into movement that is felt by the user.

U.S. Patent No. 5,691,898 to Rosenberg et al. discloses a computer input device that generates force feedback movement based on operation of a switch at the device and on force feedback commands generated by the host computer system.

U.S. Patent No. 6,057,828 to Rosenberg et al. discloses a force feedback mechanism for a host computer. A local microprocessor on the force feedback mechanism receives command from the host, decodes the commands, and outputs actuator signals to a mechanical system. The commands simulate touch sensations such as moving through fluids or impacting a surface or obstruction.

U.S. Patent No. 5,889,672 to Schuler et al. discloses an interface device for computers having programmable force position characteristics. The force position characteristics relay the tactile responsiveness of the device to the position of a cursor on a display screen.

U.S. Patent No. 6,169,540 to Rosenberg et al. discloses a software interface for allowing a user to design force sensations for use by force feedback interface device connected to a host computer.

U.S. Patent No. 5,701,140 to Rosenberg et al. discloses a linkage system, the movement of which is transduced into electrical signals that are processed by an application on a computer. The application generally is force feedback commands that are transmitted back to the linkage apparatus. The linkage apparatus converts the force feedback commands into movement that is felt by the user.

U.S. Patent No. 5,739,811 to Rosenberg et al. discloses a system that send sensor data from a user interface device to a host computer. The system can operate on a host controlled environment in which force values are generated by the host computer or in a reflex environment in which force values are generated by a processor at the interface device given high levels of advisory commands generated by the host computer.

U.S. Patent No. 5,734,373 to Rosenberg et al. discloses a force feedback system for use by a host computer and a force feedback device. A local microprocessor at the force feedback device implements a local reflex process based on high level commands

to generate force values for actuators at the force feedback device. The programmer of the host computer deals only with a relatively few high level host commands, with the bulk of the force feedback computation being handled at the local processor.

U.S. Patent No. 6,104,158 to Jacobus et al. discloses a force feedback system that simulates the presence of a force field around the user. This system includes a six-axis manipulator having two constant force springs that provide gravity compensation so that the manipulator floats.

U.S. Patent No. 6,020,876 to Rosenberg et al. discloses a force feedback system having a disturbance filter for reducing or eliminating disturbances associated with the output force sensations. The filter removes the effect of feedback forces that would otherwise cause a controlled graphical object to be displayed in an undesired location.

U.S. Patent No. 5,959,613 to Rosenberg et al. discloses a force feedback system in which force signals sent to a force feedback device are shaped by a set of controlled parameters and modified by a set of impulse parameters.

U.S. Patent No. 5,889,670 to Schuler et al. discloses a force feedback system for computer input in which the force position characteristics of the system are programmable and responsive to a position of the cursor on a display screen.

U.S. Patent No. 5,825,308 to Rosenberg discloses an interface for a feedback system. The interface system displays a physical object moveable in a physical space. In an isotonic mode, force sensations are applied to the physical object based on movement of the cursor and position of the physical object. In an isometric mode, input force applied by the user to the physical object results in input to the host computer.

U.S. Patent No. 5,848,415 to Guck discloses a content server that uses an object database to support a network of clients. Virtual objects in the database enable the format of any source document to be converted to another compatible format to transport the appropriate protocol.

U.S. Patent No. 6,173,316 to De Boor et al. discloses an extended form of HTML adapted for use by wireless telephones.

U.S. Patent No. 6,038,603 to Joseph discloses a system in which a URL contains first and second values corresponding to presence of an encapsulating protocol and an operation protocol. A second computer provides a resource store that is accessed in accordance with the operation protocol.

## II. NON-PATENT LITERATURE REFERENCES

"Inside Direct X – In Depth Techniques for Developing High-Performance Multimedia Applications" by Bradley Barga and Peter Donnelly, dated 1988, and "Inside Direct3D – The Definitive Guide for Real-Time 3D Power and Performance for Microsoft Windows" by Peter Kovach, dated 2000. These books describe Microsoft's Direct X system for allowing more computer software developers to access low level hardware functionality.

"CANopen Implementation – Applications to Industrial Networks" by M. Farsi and M. Barbosa, dated 2000. This book describes the network protocol called Controller Area Network (CAN) which is a message based, packetized, network protocol used for talking to industrial motion controllers.

"CAN System Engineering – From Theory to Practical Applications" by W. Lawrenz, dated 1997. This book also describes the network protocol called Controller Area Network (CAN) which is a message based, packetized, network protocol used for talking to industrial motion controllers.

"CNCnet Software Library" by Allen-Bradley, dated October, 1992. This product specification user manual describes a library of software functions that may be called by an application program. The CNC net functions hide the details of the network protocol and the need for the application programmer to develop custom communication drivers.

"CAN Specification" Version 2.0, by Robert Bosch, dated September, 1991. This document describes a system for implementing a serial communication. The system described in this reference comprises an object layer and transfer layer arranged between an application layer and a physical layer.

"Overview and Introduction to the Manufacturing Message Specification (MMS)" published by Sisco, Inc., dated 1995. The MMS system is a standardized messaging system that allows real time data and supervisory control information to be exchanged between network devices and computer applications.

ISO 9506-1 entitled "Industrial Automation Systems-Manufacturing Message Specification-Part 1: Service Definition" and ISO 9506-2 entitled "Industrial Automation Systems-Manufacturing Message Specification-Part 2: Protocol Specification". These documents disclose an application layer standard that allows message communications to and from programmable devices in a computer integrated manufacturing environment.

"MMS-Ease" published by Systems Integration Specialists Company, Inc., dated January, 1996. This document discloses a C-language application programming

interface for the Manufacturing Message Specification (MMS). This interface consists of a library of C-language function calls and data structures in a manner that is independent of the MMS application, device, or operating system.

"Electrical and Mechanical Interface Characteristics and Line Control Protocol Using Communication Control Characters for Serial Data Link Between a Direct Numerical Control System and Numerical Control Equipment Employing Asynchronous Full Duplex Transmission" published by the Electronics Industries Association, dated June, 1995. This document discloses a communication standard for use in digital data communication links between numerical control systems in numerical control units. These standards are further intended to allow direct numerical control systems and numerical control units of the same or different vendor sources to communicate using a common messaging syntax and protocol.

ISO/IEC 7498-1 "Information Technology—Open Systems Interconnection-Basic Reference Model: The Basic Model", dated November, 1994 describes the open systems interconnection (OSI) system for allowing open systems to communicate with each other.

ISO/IEC 7498-3 "Information Technology—Open Systems Interconnection-Basic Reference Model: Naming and Addressing", dated April, 1997 discloses the naming and addressing conventions of the open OSI model.

"The Benefits and Data Bottlenecks of High Speed Milling" by Todd J. Schuett, dated 1996-1997, and presented August, 1995. This document describes the effects of data bottlenecks on deviation of actual milling paths from design milling paths.

"The Ultimate DNC; Direct CNC Networking (DCN)" by Todd J. Schuett, dated January, 1996. This article discloses the concept of direct CNC network, in which the CNC control is connected right onto the same network as the CAD/CAN computer systems.

"Advanced Controls for High Speed Milling" by Creative Technology Corporation, dated May, 1996. This paper discloses a networking scheme for improving dataflow between a CAD/CAN work station and a CNC machine.

"A Manufacturing Cell Integration Solution" by Leitao and Lopes, dated October 1995. This paper discusses the manufacturing message specification (MMS) standard protocol for communication in the manufacturing process environment.

"Mitsubishi Electric Advance: Programmable Logic Controllers Edition", dated September, 1996. This journal contains a number of articles describing the process of

operating programmable logic controllers using computer rated software design systems.

"Flexible and Reliable Robotics Cells in Factory Automation" by M. Farsi, dated 1993. This document discusses using a network (CAN) to link various hardware components together to produce an overall system. Each module abides by ASPIC protocol to communicate with one another in a consistent manner.

"Development of a Practical SFC System for CNC Machine Shop" by Louis Kam-Piu Chu and Shang-Hua Wang, dated 1994. This document discusses communication with CNC's using DNC to transfer part programs to each machine using ISO codes and proprietary control codes where all CNC machines have been altered to use the same proprietary control codes.

"Device Communication for Flexible Manufacturing: A New Concept" by M. Farsi, dated 1994. This document is a description of a network (CAN) based messaging protocol (ASPIC) used to communicate with various industrial automation devices in a consistent manner.

"A Production Cell Communication Model in Factory Automation Using Controller Area Network" by M. Farsi, dated 1995. This document discusses using a network (CAN) to link various hardware components together to produce an overall system. Each module abides by ASPIC protocol and hardware CAN enabled conversion module to communicate with one another in a consistent manner using ASPIC Messages.

"CANopen: The Open Communications Solution" by M. Farsi, dated 1996. This document describes a network (CAN) based messaging protocol used to communicate with various industrial automation devices.

"A Motion Control System with Event-driven Motion-module Switching Mechanism for Robotic Manipulators" by Katayama et al., dated July, 1993. This reference disclosed a motion control system that employs an event-driven motion module switching mechanism.

"An Event-Driven Architecture for Controlling Behaviors of the Office Conversant Mobile Robot, Jijo-2" by Matsui et al., dated April 1997. This document discloses a layered process network architecture based on an event-driven control model.

"How to Write and Use ActiveX Controls for Microsoft Windows CE 3.0" by Microsoft Corporation, dated June, 2000. This document discloses how to build and distribute ActiveX controls for Windows CE.

"Notes on Implementing an OLE Control Container" by K. Brockschmidt of Microsoft Corporation, dated September 21, 1994. This document discloses the programming of container applications that can interact and exploit OLE controls.

"What OLE Is Really About" by K. Brockschmidt of Microsoft Corporation, dated July, 1996. This document discusses how OLE addresses practical problems encountered in operating systems and applications.

### CONCLUSION

The Applicant respectfully submits that the cited references in this case, taken alone or in combination, neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the pending application is respectfully requested. If there is any matter which needs attention, and if the Examiner feels that consultation with the applicant's attorney, the undersigned herein, would be of value, then such consultation would be welcome. The applicant's attorney can be reached at the phone number noted below.

Signed at Bellingham, County of Whatcom, State of Washington, this 20<sup>th</sup> day of February, 2004.

Respectfully submitted,

STEVEN J. BROWN et al.

By Michael R. Schacht  
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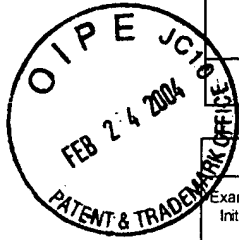
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	09/780,316
				Filing Date	2/9/2001
				First Named Inventor	David W. Brown
				Group Art Unit	2181
				Examiner Name	
Sheet	1	of	2	Attorney Docket Number	P213560



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>2</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup>			
		6,028,593		Rosenberg et al.	02/22/2000	
		5,821,920		Rosenberg et al.	10/13/1998	
		6,147,647		Tassoudji et al.	11/14/2000	
		5,956,484		Rosenberg et al.	09/21/1999	<b>RECEIVED</b> <b>FEB 26 2004</b> <b>Technology Center: 2100</b>
		6,101,530		Rosenberg et al.	08/08/2000	
		6,161,126		Wies et al.	12/12/2000	
		6,125,385		Wies et al.	09/26/2000	
		6,061,004		Rosenberg	05/09/2000	
		6,046,727		Rosenberg et al.	04/04/2000	
		6,078,308		Rosenberg et al.	06/20/2000	
		6,100,874		Schena et al.	08/08/2000	
		6,166,723		Schena et al.	12/26/2000	
		6,128,006		Rosenberg et al.	10/03/2000	
		6,131,097		Peurach et al.	10/10/2000	
		5,438,529		Rosenberg et al.	08/01/1995	
		5,623,582		Rosenberg	04/22/1997	
		5,576,727		Rosenberg et al.	11/19/1996	
		5,691,898		Rosenberg et al.	11/25/1997	
		6,057,828		Rosenberg et al.	05/02/2000	

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Examiner Signature		Date Considered	
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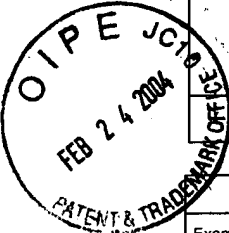
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

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Application Number	09/780,316
Filing Date	02/09/2001
First Named Inventor	David W. Brown
Group Art Unit	2181
Examiner Name	
Attorney Docket Number	P213560

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BRADLEY BARGEN and PETER DONNELLY; <u>Inside Direct X – In Depth Techniques for Developing High-Performance Multimedia Applications</u> ; 1988; Microsoft Press; U.S.	
		PETER KOVACH; <u>Inside Direct3D – The Definitive Guide for Real-Time 3D Power and Performance for Microsoft Windows</u> ; 2000; Microsoft Press; U.S.	
		M. FARSI and M. BARBOSA; <u>CANopen Implementation - Applications to Industrial Networks</u> ; 2000; Research Studies Press Ltd.; England and U.S.	
		WOLFHARD LAWRENZ; <u>CAN System Engineering – From Theory to Practical Applications</u> ; 1997; Springer-Verlag New York, Inc.; U.S.	
		ALLEN-BRADLEY; "CNCnet Software Library"; October, 1992; Publication 8000-6.1.1; U.S.	
		ROBERT BOSCH GmbH; "CAN Specification"; September, 1991; Version 2.0.	
		SISCO, INC.; "Overview and Introduction to the Manufacturing Message Specification (MMS)"; 1994-1995; Revision 2; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
		ISO-9506-1 "Industrial Automation Systems—Manufacturing Message Specification—Part 1: Service definition"; August, 2000; pp. i-22; ISO/IEC; Switzerland.	
		ISO-9506-2 "Industrial Automation Systems—Manufacturing Message Specification—Part 2: Protocol specification"; August 2000; pp. i.-6; ISO/IEC; Switzerland.	
		SISCO, INC.; "MMS-EASE"; January 1996; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
		ANSI/EIA-484-A "Electrical and Mechanical Interface Characteristics and Line Control Protocol Using Communication Control Characters for Serial Data Link Between a Direct Numerical Control System and Numerical Control Equipment Employing Asynchronous Full Duplex Transmission"; June, 1995; Electronic Industries Association; U.S.	

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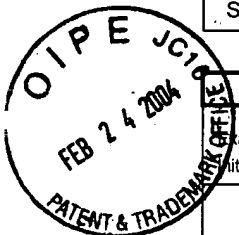
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		Examiner Name	09/780,316		
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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		ISO/IEC 7498-1 "Information Technology—Open Systems Interconnection-Basic Reference Model: The Basic Model"; November 1994; U.S.	
		ISO/IEC 7498-3 "Information Technology—Open Systems Interconnection-Basic Reference Model: Naming and Addressing"; April 1997; U.S.	
		TODD J. SCHUETT; "The Benefits and Data Bottlenecks of High Speed Milling"; August, 1995; conference paper presented at Southeastern Michigan Chapter American Mold Builders Association; Creative Technology Corporation; U.S.	
		TODD J. SCHUETT; "The Ultimate DNC; Direct CNC Networking (DCN)"; <u>Modern Machine Shop</u> ; January, 1996; Creative Technology Corporation; U.S.	
		TODD J. SCHUETT; "Advanced Controls for High Speed Milling"; conference paper presented at the SME "High Speed Machining" conference; May 7-8, 1996; Creative Technology Corporation; U.S.	
		LEITAO, MACHADO & LOPES; "A Manufacturing Cell Integration Solution"; paper developed at CCP as a part of the ESPRIT 5629 Project; October, 1995.	
		MITSUBISHI ELECTRIC; <u>Mitsubishi Electric Advance: Programmable Logic Controllers Edition</u> ; September, 1996; Vol. 76; Mitsubishi Electric Corporation; Tokyo.	
		FARSI, M.; "Flexible and Reliable Robotics Cells in Factory Automation"; 1993; pp. 520-525.	
		CHU & WANG; "Development of a Practical SFC System for CNC Machine Shop"; <u>International Conference on Data and Knowledge Systems for Manufacturing and Engineering</u> ; May 1994; pp. 362-367, Vol. 1; pp. xx+745, Vol. 2.; Chinese Univ.; Hong Kong.	
		FARSI, M.; "Device Communication for Flexible Manufacturing:-A New Concept"; 1994; pp. 328-334.	
		FARSI, M.; "A Production Cell Communication Model in Factory Automation Using the Controller Area Network"; 1995; pp. 90-95.	

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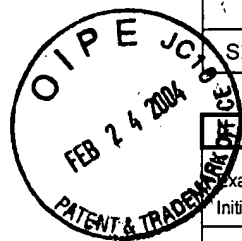
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			Attorney Docket Number	P213560
Sheet	3	of	3	



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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		FARSI, M. "CANopen: The Open Communications Solution"; 1996; pp. 112-116.
		KATAYAMA et al.; "A Motion Control System with Event-driven Motion-module Switching Mechanism for Robotic Manipulators"; <u>IEEE International Workshop on Robot and Human Communication</u> ; July, 1993; pp. 320-325; U.S.
		MATSUI et al.; "An Event-Driven Architecture for Controlling Behaviors of the Office Conversant Mobile Robot, <i>Jijo-2</i> "; <u>Proceedings of the 1997 IEEE International Conference on Robotics and Automation</u> ; April 1997; pp. 3367-3372; U.S.
		MICROSOFT CORPORATION; "How to Write and Use ActiveX Controls for Microsoft Windows CE 3.0"; <u>Windows CE 3.0 Technical Articles</u> ; June, 2000; pp. 1-5.
		MICROSOFT CORPORATION; "Notes on Implementing an OLE Control Container"; <u>ActiveX Controls Technical Articles</u> ; September 21, 1994; pp. 1-47.
		MICROSOFT CORPORATION; "What OLE Is Really About"; <u>OLE (General) Technical Articles</u> ; July, 1996; pp. 1-33.

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